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Sequence Listing was accepted.

If you need help call the Patent Electronic Business Center at (866)
217-9197 (toll free).

Reviewer: Durreshwar Anjum

Timestamp: [year=2008; month=11; day=10; hr=14; min=48; sec=3; ms=555;]

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Application No: 10082973 Version No: 2.0

Input Set:**Output Set:**

Started: 2008-10-16 17:49:51.453
Finished: 2008-10-16 17:49:53.093
Elapsed: 0 hr(s) 0 min(s) 1 sec(s) 640 ms
Total Warnings: 34
Total Errors: 0
No. of SeqIDs Defined: 54
Actual SeqID Count: 54

Error code	Error Description
W 213	Artificial or Unknown found in <213> in SEQ ID (1)
W 213	Artificial or Unknown found in <213> in SEQ ID (2)
W 213	Artificial or Unknown found in <213> in SEQ ID (3)
W 213	Artificial or Unknown found in <213> in SEQ ID (4)
W 213	Artificial or Unknown found in <213> in SEQ ID (5)
W 213	Artificial or Unknown found in <213> in SEQ ID (6)
W 213	Artificial or Unknown found in <213> in SEQ ID (7)
W 402	Undefined organism found in <213> in SEQ ID (8)
W 402	Undefined organism found in <213> in SEQ ID (9)
W 402	Undefined organism found in <213> in SEQ ID (10)
W 402	Undefined organism found in <213> in SEQ ID (11)
W 402	Undefined organism found in <213> in SEQ ID (12)
W 213	Artificial or Unknown found in <213> in SEQ ID (18)
W 402	Undefined organism found in <213> in SEQ ID (20)
W 402	Undefined organism found in <213> in SEQ ID (21)
W 402	Undefined organism found in <213> in SEQ ID (22)
W 213	Artificial or Unknown found in <213> in SEQ ID (37)
W 213	Artificial or Unknown found in <213> in SEQ ID (38)
W 213	Artificial or Unknown found in <213> in SEQ ID (39)
W 213	Artificial or Unknown found in <213> in SEQ ID (40)

Input Set:

Output Set:

Started: 2008-10-16 17:49:51.453
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Total Warnings: 34
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Actual SeqID Count: 54

Error code	Error Description
W 213	Artificial or Unknown found in <213> in SEQ ID (41)
W 213	Artificial or Unknown found in <213> in SEQ ID (42)
W 213	Artificial or Unknown found in <213> in SEQ ID (43)
W 213	Artificial or Unknown found in <213> in SEQ ID (44)
W 213	Artificial or Unknown found in <213> in SEQ ID (45)
W 213	Artificial or Unknown found in <213> in SEQ ID (46)
W 213	Artificial or Unknown found in <213> in SEQ ID (47)
W 213	Artificial or Unknown found in <213> in SEQ ID (48)
	This error has occurred more than 20 times, will not be displayed

SEQUENCE LISTING

<110> Norris, James S.
 Clawson, Gary A.
 Schmidt, Michael G.
 Hoel, Brian D.
 Pan, Wei-Hua
 Dolan, Joseph W.

<120> TISSUE-SPECIFIC AND TARGET RNA-SPECIFIC RIBOZYMES

<130> 14017-0004002

<140> 10082973

<141> 2008-10-16

<150> 09/338,942

<151> 1999-06-24

<150> 60/090,560

<151> 1998-06-24

<150> 60/096,502

<151> 1998-08-14

<160> 54

<170> FastSEQ for Windows Version 4.0

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<211> 492

<212> DNA

<213> Artificial Sequence

<220>

<223> ARN promoter

<400> 1

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<212> DNA

<213> Artificial Sequence

<220>

<223> PROC promoter

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agctcggtaa	tatccatggg	actccccaat	tacaagcaag	caggtagaat	gccgccaaag	240
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gccctggccg	aggccgtgaa	gcaactgccc	aacctccgat	tgcgtggcct	gatggccatc	900
cccgaacca	ccgccgaacg	cgccgcgcaa	cacgcgcggt	tcgcccgcct	gcgcgaactg	960
ctgctggacc	tgaaccttgg	cctggacacc	ctgtccatgg	gcatgagcga	cgacctcgag	1020
gcagccatcg	gcgaaggtgc	gacctgggtc	cgcatacggta	ccgccctgtt	cggcgcccgc	1080
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<212> DNA

<213> Artificial Sequence

<220>

<223> ARC promoter

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<210> 4

<211> 685

<212> DNA

<213> Artificial Sequence

<220>

<223> UPCM2 cassette sequence

<400> 4

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acgatgacat	tctgctgacc	agattcacgg	tcagcagaat	gtcatcgtcg	gttccaggat	180
ccggctgcta	acaaagcccc	aaaggaagct	gagttggctg	ctgccaccgc	tgagcaataa	240
ctagcataac	cccttggggc	ctctaaacgg	gtcttgaggg	gttttttgct	gaaaggagga	300
actatatccg	gatatcccgc	aagaggcccc	gcagtaccgg	cataaccaag	cctatgccta	360
cagcatccag	ggtgacgggtg	ccgaggatga	cgatgagcgc	attgttagat	ttcatacacg	420
gtgcctgact	gcgttagcaa	tttaactgtg	ataaactacc	gcattaaagc	ttatcgatga	480
taagctgtca	aacatgagaa	ttcggcgtat	acgccgaatt	tcaaggggtct	gcgcaacgac	540
gacgatgagg	taccacatcg	tcgtcgttgc	gcactgatga	ggccgtgagg	ccgaaaccct	600
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<213> Artificial Sequence

<220>
<223> P2CM2 cassette sequence

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cgtgaggacg aaacgatgac attctgctga ccagattcac ggtcagcaga atgtcatcgt 180
cggttccagg atccggctgc taacaaagcc cgaaaggaag ctgagttggc tgctgccacc 240
gctgagcaat aactagcata accccttggg gcctctaaac gggctctgag gggttttttg 300
ctgaaaggag gaactatatc cggatatccc gcaagaggcc cggcagtacc ggcataacca 360
agcctatgcc tacagcatcc aggggtgacgg tgccgaggat gacgatgagc gcattgttag 420
atttcataca cggtgccctga ctgcgttagc aatttaactg tgataaacta ccgcattaaa 480
gcttatcgat gataagctgt caaacatgag aattcggcgt atacgccgaa tttcaagggt 540
ctgcgcaacg acgacgatga ggtaccacat cgtcgctcgt gcgcactgat gaggccgtga 600
ggccgaaacc cttgacgcgt aaaaaaaaaacc cgccccggcg gggttttttac gcgttcctat 660
gcggccgctc tag 673

<210> 6
<211> 14
<212> DNA
<213> Artificial Sequence

<220>
<223> primer

<400> 6
agctcgagct caga 14

<210> 7
<211> 17
<212> DNA
<213> Artificial Sequence

<220>
<223> primer

<400> 7
tcgacggatc tagatcc 17

<210> 8
<211> 166
<212> DNA
<213> E. coli

<400> 8
agatctaaac gccgatctga tgagtccgtg aggacgaaac tttaaaaacc aaggagatct 60
aaacatctca ctgatgagtc cgtgaggacg aaacattacg aaaccaaagg agatctaaat 120
cattcacctg atgagtccgt gaggacgaaa ctttagcaaa ccaagg 166

<210> 9
<211> 378
<212> DNA

<213> *E. coli*

<400> 9

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aaattatcca ctgatgagtc cgtgaggacg aaacgggcga aaagatctag atctaaatcg 120
ttacctgatg agtccgtgag gacgaaacta ccgaaaagat ctaatctaaa tgatgttctg 180
atgagtccgt gaggacgaaa ccacttaaaa gatctagatc taaattttcc actgatgagt 240
ccgtgaggac gaaacgtgca aaaagatcta gatctaattg atacctgat gagtccgtga 300
ggacgaaaca gtcagaaaag atctagatct aaattcgttt ctgatgagtc cgtgaggacg 360
aaacaccaca aaagatct                                     378
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<210> 10

<211> 162

<212> DNA

<213> *E. coli*

<400> 10

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aaaggcatca ctgatgagtc cgtgaggacg aaactgttaa aaccaaggag atctaaacca 120
catcctgatg agtccgtgag gacgaaacag tttaaaccaa gg                                     162
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<210> 11

<211> 162

<212> DNA

<213> *E. coli*

<400> 11

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aatctcgatc tgatgagtcc gtgaggacga aaccagctaa accaaggaga tctaaacgat 120
ttcctgatga gtccgtgagg acgaaacatc accaaaccaa gg                                     162
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<210> 12

<211> 56

<212> DNA

<213> *E. coli*

<400> 12

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agatctaaat gcgtctgatg agtccgtgag gacgaaacag gcaggtaaaa ccaagg          56
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<210> 13

<211> 157

<212> DNA

<213> *Streptomyces lividans*

<400> 13

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aagggcgctg atgagtccgt gaggacgaaa cgcgaaaacc aaggagatct aaagtactcc 120
tgatgagtcc gtgaggacga aaccagcgaa accaagg                                     157
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<210> 14

<211> 168

<212> DNA

<213> *Enterococcus faecalis*

<400> 14

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ctaaagttta ataactgatg agtccgtgag gacgaaactt gttcaaacca aggagatcta 120
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aaacttttgc tgatgagtcc gtgaggacga aacgtgtata aaccaagg 168

<210> 15

<211> 162

<212> DNA

<213> *Pseudomonas putida*

<400> 15

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aaacagggttc ctgatgagtc cgtgaggacg aaacaatgta aaccaaggag atctaaatcg 120
ctttctgatg agtccgtgag gacgaaacgt gataaaccaa gg 162

<210> 16

<211> 160

<212> DNA

<213> *Streptomyces coelicolor*

<400> 16

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aaacgagtcct tgatgagtcct gtgaggacga aaccgggaaa ccaaggagat ctaaagtcga 120
tgctgatgag tccgtgagga cgaaacttcg caaaccaagg 160

<210> 17

<211> 56

<212> DNA

<213> *Staphylococcus warneri*

<400> 17

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<210> 18

<211> 38

<212> DNA

<213> Artificial Sequence

<220>

<223> B2 consensus

<400> 18

tgctcttctg atgagtccgt gaggacgaaa ccgcctga 38

<210> 19

<211> 39

<212> DNA

<213> *Mus musculus*

<400> 19

ttcaaagact gatgagtccg tgaggacgaa acgaggatc 39

<210> 20

<211> 34

<212> DNA

<213> *Mus musculus*

<400> 20

gtccatctga tgagtccgtg aggacgaaac cggc 34

<210> 21
<211> 36
<212> DNA
<213> HBV

<400> 21
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<210> 22
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<213> HPV

<400> 22
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<213> Mus musculus

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<213> Rattus norvegicus

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<210> 27
<211> 42
<212> DNA
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<400> 27
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<210> 28

<211> 37	
<212> DNA	
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<211> 37	
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<211> 36	
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tgaa 64

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cccta 65

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<210> 47
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<212> DNA
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guuccaggga uccnnnnnnc ugaugagucc gugaggacga aannnnnnnn nggaauucca 180
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aggacgaaac ggatctgcag cggatatcca gctttggaac cctgatgagt ccgtgaggac 180
gaaacgatga cattctgctg accagattca cggtcagcag aatgtcatcg tcggttccag 240
gatccttgcc tgaattccaa gggctctgcgc aacgacgacg atgaggtacc acatcgctcg 300
cgttgcgcac tgatgaggcc gtgaggccga aacccttgac gcgttcctat gcggccgctc 360
taga 364

<210> 52
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<212> DNA
<213> Artificial Sequence

<220>
<223> modified pChop cassette

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acgatgacat tctgctgacc agattcacgg tcagcagaat gtcacgtcg gttccaggat 180
ccggtgcta acaaagcccg aaaggaagct gagttggctg ctgccaccgc tgagcaataa 240
ctagcataac cccttggggc ctctaaacgg gtcttgaggg gttttttgct gaaaggagga 300
actatatccg gatatcccgc aagaggcccg gcagtaccgg cataaccaag cctatgccta 360
cagcatccag ggtgacggtg ccgaggatga cgatgagcgc attgttagat ttcatacacg 420
gtgcctgact gcgttagcaa ttttaactgtg ataaactacc gcattaaagc ttatcgatga 480
taagctgtca aacatgagaa ttcggcgat acggccgaat ttcaagggtc tgcgcaacga 540
cgacgatgag gtaccacatc gtcgtcgttg cgcactgatg aggccgtgag gccgaaacct 600
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gtcgaggggg ggcccgtag aactag 686

<210> 53

<211> 20
<212> RNA
<213> Artificial Sequence

<220>
<223> modified pChop cassette

<400> 53
acgaugacau ucugcugacc 20

<210> 54
<211> 18
<212> RNA
<213> Artificial Sequence

<220>
<223> modified pChop cassette

<400> 54
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